

Samuel W Thomas

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79 papers	6,882 citations	27 h-index	82 g-index
84 ext. papers	7,370 ext. citations	8.9 avg, IF	6.07 L-index

#	Paper	IF	Citations
79	Chemical sensors based on amplifying fluorescent conjugated polymers. <i>Chemical Reviews</i> , 2007 , 107, 1339-86	68.1	3646
78	Simple telemedicine for developing regions: camera phones and paper-based microfluidic devices for real-time, off-site diagnosis. <i>Analytical Chemistry</i> , 2008 , 80, 3699-707	7.8	1152
77	Mechanism of the hydrophobic effect in the biomolecular recognition of arylsulfonamides by carbonic anhydrase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17889-94	11.5	268
76	Amplifying fluorescent polymer sensors for the explosives taggant 2,3-dimethyl-2,3-dinitrobutane (DMNB). <i>Chemical Communications</i> , 2005 , 4572-4	5.8	172
75	Dark-field oxidative addition-based chemosensing: new bis-cyclometalated PtII complexes and phosphorescent detection of cyanogen halides. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16641-8	16.4	116
74	Trace Hydrazine Detection with Fluorescent Conjugated Polymers: A Turn-On Sensory Mechanism. <i>Advanced Materials</i> , 2006 , 18, 1047-1050	24	107
73	Towards chemosensing phosphorescent conjugated polymers: cyclometalated platinum(II) poly(phenylene)s. <i>Journal of Materials Chemistry</i> , 2005 , 15, 2829		68
72	Twisting and piezochromism of phenylene-ethynylenes with aromatic interactions between side chains and main chains. <i>Chemical Science</i> , 2014 , 5, 4184-4188	9.4	60
71	Patterns of electrostatic charge and discharge in contact electrification. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6654-6	16.4	50
70	Synthesis and Optical Properties of Simple Amine-Containing Conjugated Polymers. <i>Macromolecules</i> , 2005 , 38, 2716-2721	5.5	50
69	Thiophene-Based Conjugated Polymers with Photolabile Solubilizing Side Chains. <i>Macromolecules</i> , 2015 , 48, 959-966	5.5	45
68	Controlling contact electrification with photochromic polymers. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7968-71	16.4	45
67	Synthesis of a Novel Poly(iptycene) Ladder Polymer. <i>Macromolecules</i> , 2006 , 39, 3202-3209	5.5	44
66	perpendicular organization of macromolecules: synthesis and alignment studies of a soluble poly(iptycene). <i>Journal of the American Chemical Society</i> , 2005 , 127, 17976-7	16.4	40
65	Substituent Effects That Control Conjugated Oligomer Conformation through Non-covalent Interactions. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5164-5174	16.4	39
64	Infochemistry and infofuses for the chemical storage and transmission of coded information. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 9147-50	11.5	38
63	Electronic effects of ring fusion and alkyne substitution on acene properties and reactivity. <i>Journal of Organic Chemistry</i> , 2014 , 79, 10081-93	4.2	37

62	Tuning the Negative Photochromism of Water-Soluble Spiropyran Polymers. <i>Macromolecules</i> , 2018 , 51, 8027-8037	5.5	34
61	Self-Cleaning Membranes from Comb-Shaped Copolymers with Photoresponsive Side Groups. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13619-13631	9.5	33
60	Controlling the kinetics of contact electrification with patterned surfaces. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8746-7	16.4	32
59	Photoresponsive Polymers Containing Nitrobenzyl Esters via Ring-Opening Metathesis Polymerization. <i>Macromolecules</i> , 2011 , 44, 7956-7961	5.5	30
58	Far-field generation of localized light fields using absorbance modulation. <i>Physical Review Letters</i> , 2007 , 98, 043905	7.4	30
57	Stimuli-Responsive Free-Standing Layer-By-Layer Films. <i>Advanced Materials</i> , 2016 , 28, 715-21	24	29
56	New Applications of Photolabile Nitrobenzyl Groups in Polymers. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 2443-2449	2.6	29
55	Acene-linked conjugated polymers with ratiometric fluorescent response to 1O ₂ . <i>Chemical Communications</i> , 2011 , 47, 3445-7	5.8	29
54	Ratiometric Singlet Oxygen Detection in Water Using Acene-Doped Conjugated Polymer Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15768-15775	9.5	28
53	Reversible mechanofluorochromism of aniline-terminated phenylene ethynylenes. <i>Chemical Science</i> , 2018 , 9, 5415-5426	9.4	28
52	Two-Dimensional, Acene-Containing Conjugated Polymers That Show Ratiometric Fluorescent Response to Singlet Oxygen. <i>Macromolecules</i> , 2015 , 48, 6825-6831	5.5	27
51	Photoinduced Aggregation of Polythiophenes. <i>ACS Macro Letters</i> , 2012 , 1, 825-829	6.6	27
50	UV-induced fluorescence recovery and solubility modulation of photocaged conjugated oligomers. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14041		27
49	Infochemistry: encoding information as optical pulses using droplets in a microfluidic device. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12420-9	16.4	26
48	A non-chromatographic method for the purification of a bivalently active monoclonal IgG antibody from biological fluids. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9361-7	16.4	25
47	Structure, photophysics, and photooxidation of crowded diethynyltetracenes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6182		24
46	Light-Controlled Selective Disruption, Multilevel Patterning, and Sequential Release with Polyelectrolyte Multilayer Films Incorporating Four Photocleavable Chromophores. <i>Chemistry of Materials</i> , 2017 , 29, 2951-2960	9.6	23
45	Photolabile ROMP gels using ortho-nitrobenzyl functionalized crosslinkers. <i>Polymer Chemistry</i> , 2015 , 6, 4966-4971	4.9	22

44	Wavelength-Selective Disruption and Triggered Release with Photolabile Polyelectrolyte Multilayers. <i>Chemistry of Materials</i> , 2014 , 26, 1450-1456	9.6	22
43	Acene-doped polymer films: singlet oxygen dosimetry and protein sensing. <i>Chemical Communications</i> , 2012 , 48, 9489-91	5.8	22
42	Photochemical disruption of polyelectrolyte multilayers. <i>Advanced Materials</i> , 2012 , 24, 1451-4	24	21
41	Phase separation of 2D meso-scale Coulombic crystals from meso-scale polarizable "solvent". <i>Soft Matter</i> , 2009 , 5, 1188-1191	3.6	19
40	Directed Polymorphism and Mechanofluorochromism of Conjugated Materials through Weak Non-Covalent Control. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8316-8324	7.1	18
39	Combining electronic and steric effects for highly stable unsymmetric pentacenes. <i>Chemistry - A European Journal</i> , 2014 , 20, 5880-4	4.8	18
38	Triggered Release of Encapsulated Cargo from Photoresponsive Polyelectrolyte Nanocomplexes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23517-22	9.5	16
37	Furan-Containing Singlet Oxygen-Responsive Conjugated Polymers. <i>Macromolecules</i> , 2013 , 46, 756-762	5.5	16
36	Correlated rotational switching in two-dimensional self-assembled molecular rotor arrays. <i>Nature Communications</i> , 2017 , 8, 16057	17.4	16
35	Bandgap Engineering of Conjugated Materials with Nonconjugated Side Chains. <i>Macromolecules</i> , 2014 , 47, 2250-2256	5.5	14
34	Phase separation of two-dimensional Coulombic crystals of mesoscale dipolar particles from mesoscale polarizable "solvent". <i>Applied Physics Letters</i> , 2009 , 94, 044102	3.4	14
33	Steric and Electronic Substituent Effects Influencing Regioselectivity of Tetracene Endoperoxidation. <i>Journal of Organic Chemistry</i> , 2015 , 80, 11086-91	4.2	13
32	Polymer Amphiphiles for Photoregulated Anticancer Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2814-2820	9.5	13
31	Two-dimensional bricklayer arrangements of tolans using halogen bonding interactions. <i>Chemical Communications</i> , 2015 , 51, 8825-8	5.8	11
30	Acenes beyond organic electronics: sensing of singlet oxygen and stimuli-responsive materials. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 9191-9209	3.9	11
29	Reversible photochemical tuning of net charge separation from contact electrification. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8754-61	9.5	11
28	The Determination of the Location of Contact Electrification-Induced Discharge Events. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20885-20895	3.8	11
27	Long-duration transmission of information with infofuses. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4571-5	16.4	11

26	Side Chain Regioisomers that Dictate Optical Properties and Mechanofluorochromism through Crystal Packing. <i>Chemistry of Materials</i> , 2020 , 32, 5785-5801	9.6	10
25	Ullmann coupling mediated assembly of an electrically driven altitudinal molecular rotor. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 31931-7	3.6	9
24	Photoresponsive gels prepared by ring-opening metathesis polymerization. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 1838-43	4.8	9
23	Water-soluble fluorescent polymers that respond to singlet oxygen. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 2526-2535	2.5	9
22	Parallel scanning-optical nanoscopy with optically confined probes. <i>Optics Express</i> , 2010 , 18, 16014-24	3.3	8
21	Combining Top-Down and Bottom-Up with Photodegradable Layer-by-Layer Films. <i>Langmuir</i> , 2019 , 35, 13791-13804	4	7
20	Tuning the Key Properties of Singlet Oxygen-Responsive Acene-Doped Conjugated Polymer Nanoparticles. <i>ChemPhotoChem</i> , 2018 , 2, 632-639	3.3	7
19	UV and NIR-Responsive Layer-by-Layer Films Containing 6-Bromo-7-hydroxycoumarin Photolabile Groups. <i>Langmuir</i> , 2017 , 33, 10877-10885	4	6
18	Programmed twisting of phenylene-ethynylene linkages from aromatic stacking interactions. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1198-1207	7.1	6
17	Spectroscopy and Reactivity of Dialkoxy Acenes. <i>Chemistry - A European Journal</i> , 2019 , 25, 10400-10407	4.8	6
16	Directly Photopatternable Polythiophene as Dual-Tone Photoresist. <i>Macromolecules</i> , 2017 , 50, 7258-7267	7.5	6
15	New encoding schemes with infofuses. <i>Advanced Materials</i> , 2011 , 23, 4851-6	24	5
14	Controlling Contact Electrification with Photochromic Polymers. <i>Angewandte Chemie</i> , 2010 , 122, 8140-8143	3.6	5
13	Stimuli-responsive side chains for new function from conjugated materials. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 322-323, 119-128	4.7	4
12	Turning on solid-state phosphorescence of platinum acetylides with aromatic stacking. <i>Chemical Communications</i> , 2020 , 56, 6854-6857	5.8	4
11	Resistance to Unwanted Photo-Oxidation of Multi-Acene Molecules. <i>Journal of Organic Chemistry</i> , 2020 , 85, 12731-12739	4.2	4
10	Optimizing the self-assembly of conjugated polymers and small molecules through structurally programmed non-covalent control. <i>Journal of Polymer Science</i> , 2021 , 59, 1643-1663	2.4	4
9	Bridging the Void: Halogen Bonding and Aromatic Interactions to Program Luminescence and Electronic Properties of π -Conjugated Materials in the Solid State. <i>Chemistry of Materials</i> , 2021 , 33, 6640-6661	8.6	4

8	Forcing Ladderenes into Plastic Semiconductors with Mechanochemistry. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15196-15198	16.4	3
7	Cycloadditions of Singlet Oxygen for Responsive Fluorescent Polymers. <i>Synlett</i> , 2016 , 27, 355-368	2.2	3
6	Small Changes With Big Consequences: Swapping Two Atoms In Side Chains Changes Phenylene-Ethynylene Packing And Fluorescence. <i>Chemistry - A European Journal</i> , 2018 , 24, 16987-16994	4.8	3
5	Quantum Amplified Isomerization: A New Chemically Amplified Imaging System in Solid Polymers. <i>ACS Symposium Series</i> , 2004 , 135-146	0.4	2
4	Red-Emitting, Acene-Doped Conjugated Polymer Nanoparticles that Respond Ratiometrically to Photogenerated O. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13658-13665	9.5	1
3	Berführung von Ladderenen in plastische Halbleiter mithilfe der Mechanochemie. <i>Angewandte Chemie</i> , 2017 , 129, 15394-15396	3.6	
2	CMOS Fluorometer for Oxygen Sensing. <i>IEEE Sensors Journal</i> , 2012 , 12, 2506-2507	4	
1	Robust error correction in infofuses. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 361-377	2.4	